

## **EE/CprE/SE 492 Bi-WEEKLY REPORT 2**

**Feb 16, 2023 – Mar 2, 2023**

**Group number: 40**

**Project title: *Interactive learning platform to engage large size classroom***

**Client &/Advisor: *Md Maruf Ahamed (Client and Advisor)***

**Team Members/Role:**

- **Tyler Miller: Backend**
- **Alex Swenson: Backend**
- **Jaden Ciesielski: Frontend**
- **Brandon Burt: Frontend**
- **Adam Walters: Frontend**
- **Guan Lin: Backend**

### ○ **Bi-Weekly Summary**

- We completed the poll implementation and demoed this functionality to our client/advisor. We then started working on course navigation which is our next goal. Backend also completed a lot of house cleaning work like code formatting, testing, and error logging.

### ○ **Past 2 week accomplishments**

- **Jest Testing of Backend (Tyler)**
  - Unit testing of backend code
  - 93 percent coverage of backend
- **Join Code for classes (Tyler)**
  - Join code generated when creating course
  - Join code can then be used by sending a link to users for them to click and be added to the course
- **ESlint on Backend (Tyler & Alex)**
  - Added eslint to backend to ensure code formatting
- **Add logging service (Alex)**
  - Ability to write logs to .log files for debugging or investigating errors
- **PATCH Service (Alex)**
  - Generic service designed to be flexible enough to modify any table's data for use in PATCH endpoints while also still preventing SQL injection

- **User PATCH endpoint (Alex)**
  - Endpoint to update user data
- **Poll submission form (Jaden)**
  - Code to create popup
  - Components for each part of the poll (question, answers etc.)
  - Connection to backend to receive poll correctly
- **DB Modifications (Tyler)**
  - Modified DB and db script to add needed columns to support join codes, and other tables that require a closed state
- **Get Poll By ID (Tyler)**
  - Created API to get all poll info by its ID
- **Get Lectures by Course ID (Tyler)**
  - Created API to grab all lectures for a given course
- **Integrated Poll Message Frame (Adam)**
  - Completed the poll message frame, making all options selectable and that selection updating the backend upon selection
  - Integrated poll results displaying and retrieval from backend
- **Added Poll Streaming (Adam)**
  - Added the “poll” WebSocket event, enabling polls to be streamed in to user’s feeds live
  - Implemented validation and error-catching for streamed-in and published polls
- **Implemented Poll Updating through Websocket (Adam)**
  - Added the “poll-close” WebSocket event, which updates an existing poll to reflect new state
- **Helped Put All Poll Systems Together for Frontend (Adam)**
  - Aided team members in orchestrating all poll systems such that they worked as seamlessly as possible on the frontend
  - Worked through and helped resolve bugs
- **Finished integration of Poll Participation UI into frontend - Brandon**
  - Added final draft of UI with all changes made to the frontend directory, tested it on the lecture page.
- **Helped complete integration of Poll Participation component into Backend - Brandon**
  - Aided in the full integration of the poll participation component into the backend.
- **Worked on end to end tests for user navigation in frontend - Brandon**
  - Worked on a variety of tests using cypress to test user navigation throughout the frontend.
- **Pending issues**

Backend: End to end automation tests still work in progress.

○ **Individual contributions**

<b><u>NAME</u></b>	<b><u>Individual Contributions</u></b> <i>(Quick list of contributions. This should be short.)</i>	<b><u>Hours these Past 2 weeks</u></b>	<b><u>HOURS cumulative</u></b>
Tyler Miller	Created GetPollByID, GetCourses, join code apis, 93 percent code coverage in unit tests on the backend (153 tests), and added eslint to the backend	20	52
Brandon Burt	Poll Participation component hooked up to backend, working fully and demoed to advisor. Working on writing end-to-end tests for a variety of user navigations throughout the frontend.	12	40
Adam Walters	Finished the poll message type in the live lecture, integrated polls into the backend, made the top bar more functional, helped teammates integrate their components, and fixed various bugs surrounding polls. Planned out a task breakdown for the next four weeks and assigned to team members.	12	42
Alex Swenson	Created generic service for patching data in any table, PATCH endpoint for users, logging function for backend errors/debugging/general, added ESLint	15	40
Jaden Ciesielski	Created the poll submission form, which includes the popup and poll submission fields. Then successfully connected the poll submission to the backend via API	12	41
Guan Lin	Created initial tests for automating api testing using jest and supertest. Made tests to get health check, users and roles of users	10	20

**Comments and extended discussion**

- *Discussed basis for how cypress will be used to test frontend*
  - *Adding dependency to frontend directory, and adding the cases for testing if a user can login, if a professor can make a poll, if a user can send a message, if a user can view a course, and if a user can load the home page.*
- *Discussed group presentation*
  - *Dividing the different aspects of our project into slides*
  - *Creating roles for each member contributing to the recording / demo and presentation overall*

## ○ **Plans for the upcoming weeks**

- Frontend:
  - Create Sign Up page
  - Create Home Page
  - Create Course View page (listing of lectures)
  - Create various end-to-end tests using Cypress
- Backend:
  - Complete Patch endpoints
  - Finish Unit Testing
  - Start working on piazza like post functionality
  - Get some Integration tests working
- Team:
  - Prepare review assignment presentation prior to next week's meeting
  - Record review presentation at next meeting

## ○ **Summary of bi-weekly advisor meeting**

- Demoed Polls to advisor and showed the current functionality and all the different views (2/23/23)
- Discussed what Front-end and Backend has accomplished, and what features are available
  - Polls, New API's, future work for next meetings
- Discussed join code for allowing students to join courses
- Discussed Clients SE that will review our code
- Discussed need to talk to ETG about persisting server after we graduate